

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A system for managing the display of images representing network equipments of a communication network, said system comprising:
 - a plurality of elements, which are components of the network equipments of the communication network, associated with hierarchical levels, wherein each element is associated with a set of primary data stored in a memory, said primary data representing the element in the level to which said element belongs without any specific attachment to any level higher than said element and at least one set of secondary data stored in said memory, said secondary data representing the element within the level to which said element belongs and the element's connection to a level higher than or equal to the level of said element in the hierarchy, and
 - management means for
 - accessing and extracting from the memory at least one of the sets of primary and secondary data of the elements of the equipment that belong to a designated level and to levels lower than said equipment when a request designating a chosen level of a network equipment with attachment is received, and
 - for accessing and extracting from the memory the at least one of the sets of primary and secondary data of the elements of the equipment that belong only to a designated

level when a request designating a chosen level of a network equipment without attachment is received,

wherein the data of the elements is displayed after realigning position data of the data of the elements or after the end of a procedure, and

wherein said management means refreshes the data of the elements displayed in the event of receiving a message reporting that an event relating to said elements has occurred within the network.

2. (previously presented): A system according to claim 1, wherein said management means sends the extracted at least one of the sets of primary and secondary data to a graphical interface.

3. (previously presented): A system according to claim 1, wherein some elements are associated with sets of primary and secondary data that are at least partly identical.

4. (canceled).

5. (previously presented): A management server of a communication network management system, wherein said server comprises a system according to claim 1.

6. (previously presented): A server according to claim 5, wherein said system is installed in a control system.

Claims 7-8. (canceled).

9. (currently amended): A system for managing the display of images representing network equipments of a communication network, said system comprising:

elements, which are components of the network equipments of the communication network, associated with hierarchical levels, wherein each element is associated with a set of primary data stored in a memory, said primary data representing the element in the level to which said element belongs without any specific attachment to a level higher than said element and at least one set of secondary data stored in said memory, said secondary data representing the element within the level to which said element belongs and the element's connection to a level higher than or equal to the level of said element in the hierarchy, and

a management module which accesses and extracts from the memory at least one of the sets of primary and secondary data of the elements of the equipment that belongs to a designated level and to levels lower than said equipment when a request which designates a chosen level of a network equipment with attachment, is received, and

which accesses and extracts from the memory at least one of the sets of primary and secondary data of the elements of the equipment that belong only to a designated level when a request, which designates a chosen level of a network equipment without attachment, is received,

wherein the data of the elements is displayed after realigning position data of the data of the elements or after the end of a procedure, and

wherein said management means refreshes the data of the elements displayed in the event of receiving a message reporting that an event relating to said elements has occurred within the network.

10. (previously presented): The system according to claim 1, wherein the primary and secondary data for all of the plurality of elements is stored in a centralized, long term storage device.

11. (previously presented): The system according to claim 9, wherein the primary and secondary data for all of the plurality of elements is stored in a centralized, long term storage device.

12. (previously presented): A system according to claim 1, wherein said primary data of each of the plurality of elements is a primary graphical representation showing the element with which the primary data is associated within the hierarchical level to which the element belongs

without showing any attachment of the element to a hierarchical level higher than the hierarchical level to which the element belongs; and

wherein said secondary data of each of the plurality of elements is a secondary graphical representation showing the element with which the secondary data is associated within the hierarchical level to which the element belongs and also showing a connection of the element to a hierarchical level higher or equal to the hierarchical level to which the element belongs.

13. (previously presented): A system according to claim 12, wherein said management means accesses and extracts from the memory at least one of the sets of primary and secondary graphical representations of the elements of the equipment that belong to a designated hierarchical level and to hierarchical levels lower than said designated level when a request designating a chosen hierarchical level of a network equipment with attachment is received, and

wherein said management means accesses and extracts from the memory at least one of the sets of primary and secondary graphical representations of the elements of the equipment that belong only to a designated hierarchical level when a request designating a chosen hierarchical level of a network equipment without attachment is received.

14. (previously presented): A system according to claim 13, wherein said management means sends the extracted at least one of the sets of primary graphical and secondary graphical representations to a graphical interface.

15. (previously presented): A system according to claim 9, wherein said primary data of each of the plurality of elements is a primary graphical representation showing the element with which the primary data is associated within the hierarchical level to which the element belongs without showing any attachment of the element to a hierarchical level higher than the hierarchical level to which the element belongs; and

wherein said secondary data of each of the plurality of elements is a secondary graphical representation showing the element with which the secondary data is associated within the hierarchical level to which the element belongs and also showing a connection of the element to a hierarchical level higher or equal to the hierarchical level to which the element belongs.

16. (previously presented): A system according to claim 15, wherein said management means accesses and extracts from the memory at least one of the sets of primary and secondary graphical representations of the elements of the equipment that belong to a designated hierarchical level and to hierarchical levels lower than said designated level when a request designating a chosen hierarchical level of a network equipment with attachment is received, and

wherein said management means accesses and extracts from the memory at least one of the sets of primary and secondary graphical representations of the elements of the equipment that belong only to a designated hierarchical level when a request designating a chosen hierarchical level of a network equipment without attachment is received.

17. (previously presented): A system according to claim 16, wherein said management means sends the extracted at least one of the sets of primary graphical and secondary graphical representations to a graphical interface.